

Serial No. 09/225,245
November 29, 2004
Page 9

REMARKS

Claims 1-20 remain pending in this application. Claims 1 and 12 have been amended by this supplemental amendment to specify that the predetermined reception frequency of a signal from the mobile station is different from the predetermined transmission frequency of a signal from the base station. Support for this amendment is found throughout the specification, and in particular at page 15, lines 20-24. Claims 10 and 11 stand allowed, and claims 3-9 and 14-20 stand objected to as depending from a rejected base claim but otherwise are indicated to be directed to allowable subject matter. The remarks filed in the response of November 3, 2004 are incorporated herein by reference in their entirety. Applicants additionally wish to present the following remarks for the Examiner's consideration.

According to the invention as set forth in claims 1 and 12, interference waves are detected that interfere not only with reception signals from a mobile station, but also with transmission signals from a base station. In contradistinction, the detecting device of the prior art Yoshimi reference detects only interference waves that interfere with reception signals.

In Yoshimi, if the detecting device is applied to the base station, it can detect uplink interference waves that interfere with reception signals (i.e., the uplink signal from the mobile station to the base station), but it cannot detect the downlink interference waves which interfere with the transmission signal (i.e., the downlink signal from the base station to the mobile station).

Further, if the detecting device is applied to a mobile station, downlink interference waves can be detected by the mobile station, but not by the base station, as a downlink interference wave is a signal from another base station. Thus, during detection of downlink interference waves by the mobile station, the mobile station cannot accurately reproduce voice or data signals until after the downlink signal frequency is changed and communication stability is reacquired. On the other hand, according to the claimed invention, the base station is able to detect downlink interference waves.

Accordingly, according to the present invention as claimed the base station can change the frequency of its downlink signal to the mobile station before the downlink interference wave arrives at the mobile station, thereby avoiding the situation where

Serial No. 09/225,245
November 29, 2004
Page 10

voice or data cannot be accurately reproduced by the mobile station during a period of interference and subsequent period of downlink frequency change and communication stability reacquisition, as is the case with the prior art Yoshimi apparatus.

Conclusion

In view of the foregoing, further and favorable reconsideration of this application, withdrawal of the outstanding grounds of rejection, and the issuance of a Notice of Allowance are earnestly solicited.

Please charge any fee or credit any overpayment pursuant to 37 CFR 1.16 or 1.17 to Deposit Account No. 02-2135.

| RESPECTFULLY SUBMITTED, | | | | | |
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